

the meantime the comet's perihelion passage was computed to occur on November 23, but the comet was moving farther away from the Earth. On the evening of November 2, at  $6^{\text{h}} 40^{\text{m}}$ , the comet was observed in R.A.  $17^{\text{h}} 20^{\text{m}} 40^{\text{s}}$ , decl. north  $25^{\circ} 11'$ , when it appeared brighter than at the last observation, and the first glimpse of a broad short tail was noted.

On November 11, when the comet was in R.A.  $17^{\text{h}} 52^{\text{m}} 40^{\text{s}}$ , decl. north  $7^{\circ} 54'$ , two tails were plainly seen nearly at right angles to each other. The more prominent one was pointed away from the Sun, the second tail to the northward. A drawing of the comet is herewith given as it appeared on this occasion, and another drawing showing its appearance on the evening of November 15, when only one tail was visible with the optical power at my command, and that pointing away from the Sun. The comet's position on this date, November 15, at  $7^{\text{h}} 14^{\text{m}}$ , was R.A.  $18^{\text{h}} 0^{\text{m}} 40^{\text{s}}$ , decl. north  $2^{\circ} 33'$ . The comet at its brightest was just visible to the naked eye, and readily picked up with a good opera or field glass.

As a matter of record in the enduring archives of the Royal Astronomical Society, may I be allowed to say that I have now been permitted to reach "my majority" in cometary discovery, this latest comet being my twenty-first? Thirteen of these were made with reflecting telescopes, of my own construction, of 5 and 9 inches aperture respectively. The remaining eight comets were discovered with the 10-inch equatorial refractor of this observatory.

*Smith Observatory, Geneva, New York, U.S.A.:*  
1898 November 26.

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*Observations of Comet Coddington (c 1898). By John Tebbutt.*

I have much pleasure in transmitting observations of comet *Coddington* (c 1898), comprising 67 nights' work, from 1898 June 15 to October 18. They were made with a square bar-micrometer on the 8-inch equatorial. The differential coordinates are corrected for errors in the orientation and form of the micrometer, and for the comet's proper motion, but not for refraction, which was hardly sensible. The comet was small throughout, with a condensation in its centre, and admitted of pretty accurate observations. The concluded values of R.A. and N.P.D. are uncorrected for parallax. I fear the comet will be too faint for re-observation after the full Moon; but should I succeed in picking it up again I will forward the observations in due time.

1898.	Winisor Mean Time.			Comet—Star.		No. of Comps.	Comet's Apparent			Comp. Star.
	h	m	s	R.A. m s	N.P.D. ° ' "		R.A. h m s	N.P.D. ° ' "		
June 15	8	26	27	— 4 54'64	— 9 56'0	2	16 14 3'18	117 16 5'3	1	
16	7	39	35	— 1 19'81	+ 4 50'8	12	16 10 42'42	117 52 26'1	2	
17	8	48	9	— 5 0'14	+ 9 45'0	8	16 7 2'51	118 31 32'1	3	
22	8	27	41	— 0 33'11	+ 2 46'6	8	15 49 19'75	121 32 16'3	4	
24	6	35	26	— 0 53'56	+ 8 49'4	15	15 42 27'55	122 38 48'9	5	
25	7	2	43	— 2 51'60	+ 2 6'9	10	15 38 48'81	123 13 10'8	6	
25	7	2	43	— 5 43'74	— 6 6'0	10	15 38 49'02	123 13 9'3	7	
26	6	38	47	+ 1 31'19	+ 2 8'1	5	...	...	8	
26	6	38	47	+ 0 45'07	+ 2 7'4	5	...	...	9	
27	6	55	21	— 1 18'97	+ 0 26'7	8	15 31 43'50	124 18 41'2	10	
27	6	55	21	— 1 44'65	— 1 0'9	8	...	...	11	
27	6	55	21	— 4 31'69	— 4 34'7	8	15 31 43'64	124 18 41'2	12	
28	6	44	6	+ 0 55'40	— 11 12'1	10	...	...	13	
29	6	29	52	+ 4 23'62	— 4 21'3	2	15 24 45'66	125 21 15'5	14	
29	6	29	52	+ 0 7'32	+ 3 37'6	2	15 24 45'46	125 21 15'9	15	
July 3	6	33	1	— 1 56'00	+ 7 13'8	8	...	...	16	
3	6	33	1	— 4 21'39	+ 8 32'5	8	...	...	17	
3	6	33	1	— 4 40'17	+ 3 17'4	8	15 11 2'37	127 19 42'1	18	
5	7	7	29	+ 0 41'03	— 9 1'2	10	15 4 19'91	128 15 29'3	19	
6	6	43	49	— 0 50'67	— 1 49'1	10	...	...	20	
7	6	57	55	+ 7 44'47	+ 7 17'7	7	14 57 54'79	129 7 50'0	21	
8	6	40	56	+ 2 39'51	+ 2 40'5	10	14 54 48'90	129 32 45'5	22	
8	6	40	56	— 0 57'49	+ 1 39'5	10	...	...	23	
10	6	36	51	+ 4 0'12	— 1 56'1	8	...	..	24	
10	6	36	51	+ 3 12'89	— 1 58'5	8	14 48 42'64	130 21 30'5	25	
11	6	45	37	— 2 54'45	+ 2 23'0	4	14 45 43'84	130 45 1'2	26	
12	9	19	58	+ 1 0'95	— 2 0'1	12	14 42 29'77	131 10 35'9	27	
13	9	9	32	— 1 55'60	+ 6 20'1	10	...	...	28	
13	9	9	32	— 3 57'78	+ 7 2'9	10	14 39 40'78	131 32 48'5	29	
14	9	31	38	+ 2 37'13	+ 8 10'5	10	14 36 51'87	131 54 58'7	30	
15	9	16	19	— 1 28'59	— 5 30'9	10	14 34 11'01	132 15 59'1	31	
18	9	36	26	+ 2 42'52	— 7 19'0	10	14 26 25'22	133 17 35'6	32	
19	9	18	31	— 4 10'59	+ 1 40'0	10	...	...	33	
20	8	46	7	+ 3 26'87	+ 4 34'3	8	14 21 41'91	133 55 48'5	34	
21	8	46	16	+ 3 45'89	+ 2 45'4	6	14 19 23'50	134 14 39'2	35	
21	8	46	16	— 5 52'98	— 7 0'2	6	14 19 23'30	134 14 39'9	36	
22	9	0	35	+ 2 51'97	— 10 0'9	9	14 17 7'35	134 33 22'3	37	
24	7	40	52	— 4 21'08	— 3 47'0	10	14 12 58'39	135 8 34'6	38	

Dec. 1898.

*Comet Coddington (c 1898).*

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1898.	Windsor Mean Time.			Comet—Star. R.A.			No. of Comps.	Comet's Apparent R.A.			Comp. star.							
	h	m	s	m	s	"		h	m	s								
July 26	9	5	36	—	4	4'53	+	9	0	1	10	14	8	51'30	135	44	41'7	39
27	8	31	23	—	7	59'06	—	10	37'5		4		...				40	
27	8	31	23	—	9	31'49	—	10	56'1		4		...				41	
27	8	31	23	—	11	21'94	—	2	54'3		4	14	7	0'36	136	1	31'2	42
28	9	1	9	+	0	35'79	—	7	17'3		10		...				43	
28	9	1	9	—	5	32'08	—	7	47'4		10	14	5	7'67	136	18	55'3	44
29	8	42	7	—	1	9'05	+	9	21'7		10		...				45	
31	8	38	27	—	0	30'11	+	1	58'4		10	14	0	2'03	137	8	31'9	46
31	8	38	27	—	4	11'47	—	9	8'6		10	14	0	2'06	137	8	29'2	47
Aug. 1	9	10	59	—	5	48'71	+	7	37'0		8	13	58	24'80	137	25	14'7	47
5	8	23	41	÷	3	0'04	+	5	7'5		10	13	52	42'46	138	29	0'4	48
5	8	23	41	+	1	19'63	—	2	40'5		10	13	52	42'43	138	29	0'6	49
6	8	16	38	+	0	59'66	+	7	33'7		1		...				50	
8	7	34	41	+	0	4'47	+	4	41'3		10		...				51	
9	8	31	39	+	6	34'72	—	5	8'0		6	13	47	53'60	139	32	13'7	52
9	8	31	39	+	4	12'27	—	6	36'7		6		...				53	
11	7	44	58	—	6	57'67	÷	10	21'9		4	13	45	49'75	140	3	9'8	54
12	7	34	1	—	1	22'28	—	6	39'9		7	13	44	54'13	140	18	45'2	55
14	7	53	24	÷	2	51'47	—	5	18'0		10	13	43	6'05	140	50	24'4	56
17	7	52	59	+	1	9'32	—	10	15'6		10	13	40	47'95	141	37	51'4	57
19	7	37	24	—	0	10'21	÷	8	59'3		10	13	39	30'58	142	9	35'3	58
20	7	29	47	—	6	35'62	+	6	52'5		10	13	38	55'68	142	25	34'1	59
20	7	29	47	—	6	37'63	+	6	46'5		10	13	38	55'54	142	25	34'1	60
21	7	50	45	—	2	10'09	—	4	48'4		10	13	38	23'43	142	41	59'4	61
22	7	56	19	+	4	26'29	+	0	56'1		10	13	37	54'08	142	58	15'1	62
23	7	34	4	—	0	30'87	÷	0	54'4		10		...				63	
26	7	47	26	+	1	6'40	+	1	2'2		10	13	36	21'48	144	4	0'5	64
Sept. 6	7	33	32	+	3	5'40	+	8	28'3		10	13	35	16'92	147	15	5'5	65
6	7	33	32	—	1	38'19	+	10	10'5		10	13	35	16'62	147	15	6'8	66
7	7	59	8	+	1	40'46	÷	8	50'1		4	13	35	24'38	147	33	44'2	67
8	7	35	39	+	4	5'39	—	2	12'5		8	13	35	33'39	147	51	50'0	68
8	7	35	39	—	3	21'06	+	7	37'8		8	13	35	33'31	147	51	50'9	69
10	7	21	5	+	0	43'28	+	12	14'4		8	13	36	0'32	148	28	53'9	70
11	7	30	44	+	1	50'19	+	5	4'3		10	13	36	14'98	148	48	6'3	71
11	7	30	44	—	0	55'18	+	4	22'0		10	13	36	14'91	148	48	3'9	72
12	7	25	57	—	5	14'34	+	7	32'0		7	13	36	32'61	149	7	5'2	73
13	7	27	25	—	5	37'35	+	1	10'3		7		...				74	
15	7	32	30	—	4	37'16	—	9	33'1		8	13	37	39'23	150	5	28'6	75

1898.	Windsor Mean Time.			Comet—Star. R.A.			N.P.D.			No. of Comps.			Comet's Apparent R.A.			N.P.D.			Comp. Star.		
	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s
Sept. 16	7	27	1	—	3	3'70	+	7	0'8	10	13	38	6'71	150	25	20'3					76
16	7	27	1	—	4	9'47	+	10	20'1	10	13	38	6'91	150	25	21'5					75
18	7	11	27	+	3	22'15	—	8	21'5	6	13	39	5'86	151	5	21'8					77
18	7	11	27	+	2	48'82	—	6	39'4	6	13	39	6'02	151	5	23'1					78
20	7	24	39	+	1	0'83	—	10	13'6	7	13	40	15'15	151	46	33'5					79
20	7	24	39	—	2	36'26	+	0	8'7	7	13	40	14'86	151	46	33'4					80
23	7	26	24	—	3	1'86	—	1	45'7	10	13	42	16'51	152	49	40'7					81
30	7	25	41	—	2	31'28	+	5	36'0	4	13	48	24'89	155	24	1'6					82
Oct. 3	7	26	46	+	4	43'94	+	9	7'0	3	13	51	42'93	156	33	19'9					83
3	7	26	46	+	4	40'97	+	9	25'0	3	13	51	43'11	156	33	21'6					84
5	7	32	51	+	2	43'04	—	0	6'5	8	13	54	12'89	157	20	49'5					85
5	7	32	51	+	2	23'98	—	0	32'3	8	13	54	12'77	157	20	49'8					86
6	7	47	32	—	4	6'96	+	5	10'9	5	13	55	33'49	157	45	0'8					87
6	7	47	32	—	5	17'77	+	5	26'0	5	13	55	33'74	157	45	1'9					88
9	7	32	36	+	5	35'99	—	8	2'5	4			...								89
10	7	41	45	—	1	4'44	+	8	32'5	10	14	1	34'77	159	23	0'7					90
15	7	45	20	+	6	19'08	—	8	17'9	4	14	10	51'47	161	30	37'0					91
18	7	41	31	—	0	53'89	+	5	43'7	10	14	17	42'63	162	49	32'3					92

## Adopted Mean Places of the Comparison Stars for 1898.0.

Star.	Mean R.A.			Red. to App. R.A.	Mean N.P.D.			Red. to App. N.P.D.	Authorities.		
	h	m	s	s	h	m	s	s			
1	16	18	53'56	+4'26	117	25	48'4	+12'9	Arg.-Oeltzen 15599-600; Argent. Gen. Cat. 22232.		
2	16	11	57'98	+4'25	117	47	21'7	+13'6	Arg.-Oeltzen 15482; Argent. Gen. Cat. 22077; Stone, 8858.		
3	16	11	58'38	+4'27	118	21	33'4	+13'7	Arg.-Oeltzen 15481; Argent. Gen. Cat. 22078; Stone, 8857; Radcliffe, 1890, 4222.		
4	15	49	48'58	+4'28	121	29	13'2	+16'5	Argent. Gen. Cat. 21576; Stone, 8653; Radcliffe, 1890, 4110.		
5	15	43	16'84	+4'27	122	29	42'1	+17'4	Argent. Gen. Cat. 21432; Stone, 8594.		
6	15	41	36'13	+4'28	123	10	46'2	+17'7	Argent. Gen. Cat. 21390.		
7	15	44	28'45	+4'31	123	18	57'8	+17'5	Argent. Gen. Cat. 21454; Stone, 8602; Radcliffe, 1890, 4083.		
8	15	33	42	+4'25	123	49		+18'6	Equatorial. Star = 10 mag.		
9	15	34	28	+4'25	123	49		+18'5	Equatorial. Star = 10 mag.		
10	15	32	58'21	+4'26	124	17	55'7	+18'8	Argent. Gen. Cat. 21198.		

Dec. 1898.

*Comet Coddington (c 1898).*

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Star.	Mean R.A.			Red. to App. R.A.	Mean N.P.D.			Red. to App. N.P.D.	Authorities.
	h	m	s	s	°	'	"		
11	15	33	24	+4'26	124	19	"	+18'8	Equatorial. Star=9 mag.
12	15	36	11'05	+4'28	124	22	57'4	+18'5	Argent. Gen. Cat. 21274; Stone, 8533.
13	15	27	17	+4'24	125	1		+19'5	Equatorial. Star=9 mag.
14	15	20	17'85	+4'19	125	25	16'6	+20'2	Argent. Gen. Cat. 20903; Stone, 8395.
15	15	24	33'92	+4'22	125	17	18'5	+19'8	Argent. Gen. Cat. 21003.
16	15	12	54	+4'16	127	12		+21'5	Equatorial. Star=9 mag.
17	15	15	20	+4'18	127	11		+21'3	Equatorial. Star=8½ mag.
18	15	15	38'35	+4'19	127	16	3'4	+21'3	Argent. Gen. Cat. 20803; Stone, 8351.
19	15	3	34'78	+4'10	128	24	7'9	+22'6	Argent. Gen. Cat. 20546; Stone, 8237.
20	15	1	55	+4'09	128	43		+22'9	Equatorial. Star=8½ mag.
21	14	50	6'35	+3'97	129	0	8'5	+23'8	Argent. Gen. Cat. 20221; Stone, 8128.
22	14	52	5'40	+3'99	129	29	41'1	+23'9	Argent. Gen. Cat. 20274; Stone, 8150.
23	14	55	42	+4'03	129	31		+23'6	Equatorial. Star=9 mag.
24	14	44	39	+3'92	130	23		+24'7	Equatorial. Star=9 mag.
25	14	45	25'82	+3'93	130	23	4'4	+24'6	Argent. Gen. Cat. 20120.
26	14	48	34'33	+3'96	130	42	13'7	+24'5	" " 20185.
27	14	41	24'94	+3'88	131	12	10'8	+25'2	" " 20026.
28	14	41	32	+3'88	131	26		+25'2	Equatorial. Star=9 mag.
29	14	43	34'66	+3'90	131	25	20'5	+25'1	Argent. Gen. Cat. 20081; Stone, 8067.
30	14	34	10'95	+3'79	131	46	22'4	+25'8	Argent. Gen. Cat. 19858.
31	14	35	35'79	+3'81	132	21	4'1	+25'9	Argent. Gen. Cat. 19889; Stone, 7993.
32	14	23	39'05	+3'65	133	24	27'8	+26'8	Argent. Gen. Cat. 19604; Stone, 7893.
33	14	28	8	+3'69	133	34		+26'7	Equatorial. Star=8½ mag.
34	14	18	11'48	+3'56	133	50	47'0	+27'2	Argent. Gen. Cat. 19477; Stone, 7853.
35	14	15	34'10	+3'51	134	11	26'4	+27'4	Argent. Gen. Cat. 19418.
36	14	25	12'64	+3'64	134	21	13'0	+27'1	Argent. Gen. Cat. 19649; Stone, 7909.
37	14	14	11'89	+3'49	134	42	55'6	+27'6	Argent. Gen. Cat. 19379; Stone, 7819.
38	14	17	15'97	+3'50	135	11	54'0	+27'6	Argent. Gen. Cat. 19453.
39	14	12	52'42	+3'41	135	35	13'8	+27'8	Argent. Gen. Cat. 19354; Melb. 187c, 723; Stone, 7806; Cape Cat. 1885, 982.

Star.	Mean E.A.			Red. to App. R.A.	Mean N.P.D.			Red. to App. N.P.D.	Authorities.	
	h	m	s	s	°	'	"	"		
40	14	14	56	+3.43	136	12	"	+27.9	Equatorial.	Star = 9 mag.
41	14	16	28	+3.46	136	12		+27.9	Equatorial.	Star = 9 mag.
42	14	18	18.82	+3.48	136	3	57.8	+27.7	Argent. Gen. Cat.	19482 ; Stone, 7855.
43	14	4	29	+3.28	136	26		+28.3	Equatorial.	Star = 7½ mag.
44	14	10	36.39	+3.36	136	26	14.6	+28.1	Argent. Gen. Cat.	19318.
45	14	4	26	+3.26	136	26		+28.2	Equatorial.	Double star = 8½ and 9 mag. Preceding and south component employed.
46	14	0	28.97	+3.17	137	6	5.1	+28.4	Argent. Gen. Cat.	19120 ; Stone, 7713.
47	14	4	10.30	+3.23	137	17	9.4	+28.4	Argent. Gen. Cat.	19198.
47	14	4	10.30	+3.21	137	17	9.4	+28.3	"	" 19198.
48	13	49	39.49	+2.93	138	23	24.2	+28.7	Argent. Gen. Cat.	18907 ; Stone, 7631.
49	13	51	19.84	+2.96	138	31	12.4	+28.7	Argent. Gen. Cat.	18945 ; Stone, 7650.
50	13	50	21	+2.92	138	36		+28.6	Equatorial.	Star = 8½ mag.
51	13	48	55	+2.86	139	11		+28.6	Equatorial.	Star = 9½ mag.
52	13	41	16.15	+2.73	139	36	53.0	+28.7	Argent. Gen. Cat.	18721 ; Stone, 7545.
53	13	43	39	+2.77	139	38		+28.7	Equatorial.	Star = 8½ mag.
54	13	52	44.56	+2.86	139	52	19.4	+28.5	Argent. Gen. Cat.	18973 ; Stone, 7665.
55	13	46	13.67	+2.74	140	24	56.5	+28.6	Argent. Gen. Cat.	18837 ; Stone, 7589.
56	13	40	11.97	+2.61	140	55	13.9	+28.5	Argent. Gen. Cat.	18700 ; Stone, 7538.
57	13	39	36.10	+2.53	141	47	38.7	+28.3	Argent. Gen. Cat.	18686.
58	13	39	38.30	+2.49	142	0	7.9	+28.1	"	" 18689.
59	13	45	28.75	+2.55	142	18	13.5	+28.1	Argent. Gen. Cat.	18814 ; Stone, 7578.
60	13	45	30.62	+2.55	142	18	19.5	+28.1	Argent. Gen. Cat.	18817 ; Stone, 7579.
61	13	40	31.07	+2.45	142	46	19.8	+28.0	Argent. Gen. Cat.	18706 ; Stone, 7539.
62	13	33	25.47	+2.32	142	56	51.2	+27.8	Melb. Cat.	1870, 683 ; Argent. Gen. Cat. 18559 ; Stone, 7478 ; Cape Cat. 1885, 935.
63	13	37	57	+2.37	143	13		+27.8	Equatorial.	Star = 8½ mag.
64	13	35	12.82	+2.26	144	2	30.8	+27.5	Argent. Gen. Cat.	18587 ; Stone, 7491.
65	13	32	9.59	+1.93	147	6	11.2	+26.0	Argent. Gen. Cat.	18532 ; Stone, 7468.
66	13	36	52.80	+2.01	147	4	30.1	+26.2	Argent. Gen. Cat.	18622 ; Stone, 7513.
67	13	33	41.99	+1.93	147	24	28.1	+26.0	Argent. Gen. Cat.	18564.

Dec. 1898.

*Comet Coddington* (c 1898).

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Star.	Mean R.A.			Red. to App. R.A.	Mean N.P.D.			Red. to App. N.P.D.	Authorities.
	h	m	s	s	°	'	"	"	
68	13	31	26.13	+1.87	147	53	36.7	+25.8	Argent. Gen. Cat. 18513; Stone, 7457.
69	13	38	52.38	+1.99	147	43	47.1	+26.0	Argent. Gen. Cat. 18663; Stone, 7527.
70	13	35	15.16	+1.88	148	16	13.9	+25.6	Argent. Gen. Cat. 18586; Stone, 7492.
71	13	34	22.95	+1.84	148	42	36.6	+25.4	Argent. Gen. Cat. 18572.
72	13	37	8.21	+1.88	148	43	16.4	+25.5	Argent. Gen. Cat. 18626; Stone, 7516.
73	13	41	45.02	+1.93	148	59	7.7	+25.5	Argent. Gen. Cat. 18727; Stone, 7547.
74	13	42	34	+1.91	149	25		+25.4	Equatorial. Star = 8½ mag.
75	13	42	14.55	+1.84	150	14	36.6	+25.1	Argent. Gen. Cat. 18738; Stone, 7550.
75	13	42	14.55	+1.83	150	14	36.6	+24.8	Argent. Gen. Cat. 18738; Stone, 7550.
76	13	41	8.60	+1.81	150	17	54.7	+24.8	Argent. Gen. Cat. 18715.
77	13	35	42.06	+1.65	151	13	18.9	+24.4	Argent. Gen. Cat. 18596; Stone, 7498.
78	13	36	15.54	+1.66	151	11	38.2	+24.3	Argent. Gen. Cat. 18611; Stone, 7504.
79	13	39	12.67	+1.65	151	56	23.0	+24.1	Argent. Gen. Cat. 18668; Stone, 7528.
80	13	42	49.40	+1.72	151	46	0.5	+24.2	Argent. Gen. Cat. 18755; Stone, 7554.
81	13	45	16.70	+1.67	152	51	2.6	+23.8	Argent. Gen. Cat. 18803; Stone, 7574.
82	13	50	54.61	+1.56	155	18	2.9	+22.7	Argent. Gen. Cat. 18931; Stone, 7643.
83	13	46	57.59	+1.40	156	23	51.0	+21.9	Argent. Gen. Cat. 18845; Stone, 7595.
84	13	47	0.74	+1.40	156	23	34.7	+21.9	Argent. Gen. Cat. 18846.
85	13	51	28.45	+1.40	157	20	34.3	+21.7	Argent. Gen. Cat. 18939; Stone, 7647.
86	13	51	47.38	+1.41	157	21	0.4	+21.7	Argent. Gen. Cat. 18950; Stone, 7651.
87	13	59	38.93	+1.52	157	39	28.1	+21.8	Argent. Gen. Cat. 19094.
88	14	0	49.97	+1.54	157	39	14.1	+21.8	„ „ 19121.
89	13	54	18	+1.30	159	6		+21.0	Equatorial. Star = 9 mag.
90	14	2	37.77	+1.44	159	14	7.1	+21.1	Melb. Cat. 1870, 713; Argent. Gen. Cat. 19164; Stone, 7733.
91	14	4	31.13	+1.26	161	38	34.8	+20.1	Gilliss's Cat. 1850, 9875.
92	14	18	35.08	+1.44	162	43	28.7	+19.9	„ „ 10059.

*Observatory, Peninsula, Windsor,  
N.S. Wales: 1898 Oct. 29.*



Cometary Observations at the Liverpool Observatory, 1897-8. By W. E. Plummer, M.A.

The following observations form a continuation of the series of measures published in May 1896. The remarks made in that place concerning the instrument employed and the nature of the micrometers apply equally well to these observations. The general faintness of the Comets that have been recently discovered has operated unfavourably in many cases, and, notwithstanding the number of these objects recently discovered, the number of observations is less than in former years.

Comet VII. 1896 (Perrine, December 8).

Greenwich Mean Time of Observation.	h m s	*R.A. h m s	No. of Compari- sons.	Apparent R.A. of $\gamma$ . h m s	Declination. ° ' "	No. of Compari- sons.	Apparent Declination of $\beta$ .			Log. Factor of Parallax in (a).	Log. Factor of Parallax in (b).	Star of Com- parison.
							°	'	"			
1896.												
Dec. 11	7 10 30.1	-2 21.99	25	1 9 53.22	+ 2 30.9	5	+ 5	23	10.2	-8.8616	-0.8143	1
22	7 0 55.0	+0 53.61	30	2 23 35.87	+ 5 8.2	6	+ 1	35	11.6	-9.1169	-0.8386	2
27	6 17 40.6	-2 18.55	25	2 52 42.27	- 5 52.5	5	+ 0	28	3.8	-9.3045	-0.8450	3
27	6 17 40.6	-2 3.88	25	2 52 42.34	- 0 56.7	5	+ 0	28	2.6	-9.3045	-0.8450	4
28	8 0 23.2	-1 24.28	Ret.	2 58 34.21	-10 49.8	Ret.	+ 0	16	29.2	-8.7774	-0.8457	5
30	8 40 7.3	+1 9.87	"	3 9 16.30	+10 15.3	"	- 0	2	19.7	-7.7051	-0.8474	6
1897.												
Jan. 5	7 42 37.9	-1 41.53	25	3 38 0.62	- 0 47.4	5	- 0	37	56.5	-8.9920	-0.8506	7
8	8 2 0.4	-3 6.97	30	3 51 4.70	- 4 17.4	6	- 0	46	8.3	-8.8522	-0.8514	8
20	7 3 51.2	-0 58.25	Ret.	4 35 8.92	+ 3 11.8	Ret.	- 0	32	20.7	-9.1785	-0.8499	9
26	9 32 45.0	-1 30.65	"	4 53 56.86	+ 5 3.4	"	- 0	6	38.5	+8.8988	-0.8478	10
26	9 32 45.0	+0 35.01	"	4 53 56.73	- 5 9.1	"	- 0	6	41.2	+8.8988	-0.8478	11